

METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR
PROVIDING DIGITAL SIGNATURES IN A NETWORK ENVIRONMENT

ABSTRACT OF DISCLOSURE

Methods, systems and computer program products are discussed for authenticating a message. A first random number may be generated at a first station according to a predetermined random number generation algorithm and the first
5 random number may be used to construct a first security field. The first security field may be encrypted to create a first digital signature and the first digital signature may be appended to the message to create a packet. The packet, including the message and the first digital signature, may be transmitted from the first station and received at
10 a second station. A second random number may be generated at the second station according to the predetermined random number generation algorithm. A second security field may be constructed at the second station that includes the second random number. Finally, the second security field, including the second random number, may be compared to the first digital signature.

15